At page 21, replace the first paragraph, lines 2 and 3, with the following:

C4 ... region of an Epo hyperglycosylated analog fusion protein has the sequence as set forth in Figure 10 (SEQ ID NO: 25) (see Ellison *et al.*, Nucleic Acids Res. 10, 4071-4079 (1982)) starting at residue 6 (that is, residues 1-5 are deleted).

At page 22, replace the last paragraph, line 35, with the following:

C5 Cysteine residues in Fc molecules can be deleted or replaced with other amino acids to prevent formation of disulfide crosslinks. In particular, a cysteine residue at position 5 of Figure 10 (SEQ. ID. NO. 25) may be substituted with one or more amino ...

At page 23, replace the second paragraph, line 5, with the following:

C6 An Fc fragment may be prepared by deletion of one or more amino acids at any of positions 1, 2, 3, 4 and 5 as shown in Figure 10 (SEQ ID NO. 25). In one embodiment, the amino acid residues at positions 1-5 inclusive are deleted. Substitutions at these positions can also be made and are with in the scope of this invention.

At page 24, replace the second paragraph, lines 16, 17, 20, 21 and 23, with the following:

The Fc protein may be also linked to the Epo glycosylation analogs by "linker" moieties comprising chemical groups or amino acids of varying lengths. Such chemical linkers are well known in the art. Amino acid linker sequences can include but are not limited to:

C7

(a) ala-ala-ala;
(b) ala-ala-ala-ala (SEQ ID NO: 6);
(c) ala-ala-ala-ala-ala (SEQ ID NO: 7);
(d) gly-gly;
(e) gly-gly-gly;
(f) gly-gly-gly-gly-gly (SEQ ID NO: 8);
(g) gly-gly-gly-gly-gly-gly-gly (SEQ ID NO: 9);
(h) gly-pro-gly;
(i) gly-gly-pro-gly-gly (SEQ ID NO: 10); and
(j) any combination of subparts (a) through (i).

At page 38 and 39, replace the section beginning "For each analog..." with the following:

C8 For each analog, the same outside primers were used. The 3' (reverse) primer contained sequences that introduced a stop codon followed by a Sal I restriction site:

AGGTGGACAGTCGACATTATCTGTCCCCTGTC (SEQ ID NO: 11).

The 5' forward reaction primer:

AACAAGCTTCTAGACCACCATGGGGGTG (SEQ ID NO: 12)

had a Hind III restriction site followed by a Kozak sequence upstream of the Epo initiator codon (ATG).

Mutagenic primers were as follows:

N30 T32 mutagenic forward primer

ACG ACG GGC TGT AAT GAA ACG TGC AGC TTG (SEQ ID NO: 13)

N30 T32 mutagenic reverse primer

C8 CAA GCT GCA CGT TTC ATT ACA GCC CGT CGT G (SEQ ID NO: 14)

N55 T57 mutagenic forward primer

GCC TGG AAG AGG ATG AAT GTC ACGCAG CAG GCC GTA GAA (SEQ ID NO: 15)

N55 T57 mutagenic reverse primer

TTC TAC GGC CTG CTG CGT GAC ATTCAT CCT CTT CCA GGC A (SEQ ID NO: 16)

V87 N88 T90 mutagenic forward primer

TCT TCC CAG GTG AAT GAG ACC CTG CAG CTG (SEQ ID NO: 17)

V87 N88 T90 mutagenic reverse primer

CAG CTG CAG GGT CTC ATT CAC CTG GGA AGA GTT G (SEQ ID NO: 18)

P124 T125 T126 mutagenic forward primer

CCA GAT CCG ACC ACA GCT GCT CCA (SEQ ID NO: 19)

P124 T125 T126 mutagenic reverse primer

TGG AGC AGC TGT GGT CGG ATC TGG A (SEQ ID NO: 20)

At page 41, replace the section beginning "Construction of cDNA encoding Hyperglycosylated Epo Analog Fusion Polypeptide" with the following:

Epo analog N70 was also made by overlap PCR. Plasmid DSR•2 containing the cDNA sequence encoding analog N47 (N30 T32 V87 N88 T90) and plasmid pAMG21 (ATCC accession no. 98113) containing cDNA encoding an Fc region were used as templates for the polymerase chain reactions. The Fc portion of human

C9 immunoglobulin IgG1 heavy chain from residue 104 of the hinge domain(Asp-104) to the carboxyl terminus (Ellison et al., supra, see also Figure 10 starting at aspartic acid residue at position 6), was generated by PCR amplification of a human spleen cDNA library (Clontech). Overlapping PCR products were generated in two reactions using the following oligonucleotide primers

5' forward reaction primer 2343-85 (Epo specific):

AAC AAG CTT CTA GAC CAC CAT GGG GGT G (SEQ ID NO: 21)

3' reverse reaction primer 2343-87 (homology to both Epo and Fc):

AGG TGG ACA TGT GTG AGT TTT GTC TCT GTC CCC TCT CCT GCA GGC CTC C (SEQ ID NO: 22)

C9 cont.

5' forward reaction primer 2343-86 (homology to both Epo and Fc):

GAG GCC TGC AGG ACA GGG GAC AGA GAC AAA ACT CAC ACA TGT CCA CCT (SEQ ID NO: 23)

3' reverse reaction primer 2343-88 (specific to Fc):

TGG ACA GTC GAC ATT ATT TAC CCG GAG ACA GGG AGA GGC TCT TCT GC (SEQ ID NO: 24)

In the Claims

Please replace claim 44 with the following:

C10

44. The fusion protein of Claim 43 consisting of the mature amino acid sequence as set forth in Figure 11 (SEQ ID NO: 26) lacking the signal sequence.